Fatty-acid synthase activity and mRNA level in hypertrophic type II cells from silica-treated rats
J. Rami, W. Stenzel, S. M. Sasic, C. Puel-M'Rini, J.-P. Besombes, J. A. Elias, and S. A. Rooney L128

Interleukin-8 is a major component of pleural liquid chemotactic activity in a rabbit model of endotoxin pleurisy
A. M. Boylan, C. A. Hébert, M. Sadick, W. L. Wong, A. Chuntharapai, J. M. Hoeffel, K. T. Hartiala, and V. C. Broaddus L137

Phorbol-stimulated influx of extracellular calcium in rat pulmonary artery endothelial cells
H. S. Murphy, M. Maroughi, G. O. Till, and P. A. Ward L145

Apically localized IP_3 receptors control chloride current in airway gland acinar cells
T. Sasaki, S. Shimura, M. Wakui, Y. Ohkawara, T. Takishima, and K. Mikoshiba L152

Extracellular ATP regulation of feline tracheal submucosal gland secretion
S. Shimura, T. Sasaki, M. Nagaki, T. Takishima, and K. Shirato L159

Characterization of the surfactant protein A receptor: cell and ligand specificity
R. S. Oosting and J. R. Wright L165

Complexation of iron by humic-like substances in lung tissue: role in coal workers' pneumoconiosis
A. J. Ghio and D. R. Quigley L173

Human airway smooth muscle responsiveness in neonatal lung specimens
M. Fayon, A. Ben-Jebria, C. Elleau, D. Carles, J.-L. Demarquez, J.-P. Savineau, and R. Marthan L180

Hyperoxia stimulates interleukin-8 release from alveolar macrophages and U937 cells: attenuation by dexamethasone
P. R. Deaton, C. T. McKellar, R. Culbreth, C. F. Veal, and J. A. D. Cooper, Jr. L187

Regulation of Na and Cl transport in sheep distal airways
F. J. Al-Bazzaz L193

Lung lymphatics cast from the airspace
K. D. Hainis, J. I. Sznajder, and D. E. Schraufnagel L199

Chloride secretion and function of serous and mucous cells of human airway glands
W. E. Finkbeiner, B.-Q. Shen, and J. H. Widdicombe L206

SPECIAL COMMUNICATION

Phagocytosis of viable *Candida albicans* by alveolar macrophages: flow cytometric quantification
S. Rosseau, W. Seeger, H. Pralle, and J. Lohmeyer L211

RAPID COMMUNICATION

Passive sensitization of human bronchi augments smooth muscle shortening velocity and capacity
R. W. Mitchell, E. Rühlmann, H. Magnussen, A. R. Leff, and K. F. Rabe L218

No. 3. SEPTEMBER 1994

INVITED REVIEW

Regulation of vascular endothelial barrier function
H. Lum and A. B. Malik L223

Concurrent generation of nitric oxide and superoxide damages surfactant protein A
I. Y. Haddad, J. P. Crow, P. Hu, Y. Ye, J. Beckman, and S. Matalon L242

Leumedin NPC 15669 inhibits antigen-induced recruitment of inflammatory cells into the canine airways
T. Kaneko, P. G. Jorens, J. B. Y. Richman-Eisenstat, P. F. Dazin, and J. A. Nadel L250

Characterization of vasoactive intestinal peptide receptors on rat alveolar macrophages
H. Sakakibara, K. Shima, and S. I. Said L256

Expression of the tyrosine phosphatase LAR-PTP2 is developmentally regulated in lung epithelia
D. Rotin, B. J. Goldstein, and C. A. Fladd L263

Hypoxia induces the synthesis of tropomyosin in cultured porcine pulmonary artery endothelial cells
U. J. S. P. Rao, N. D. Denslow, and E. R. Block L271

Activation of protein kinase C mediates altered pulmonary vasoreactivity induced by tumor necrosis factor-α
G. Serfilippi, T. J. Ferro, and A. Johnson L282

Adrenergic receptor-mediated regulation of cultured rabbit airway smooth muscle cell proliferation
J. P. Noveral and M. M. Grunstein L291

Cadmium selectively inhibits fibroblast procollagen production and proliferation
R. C. Chambers, R. J. McAnulty, A. Shock, J. S. Campa, A. J. N. Taylor, and G. J. Laurent L300

Immortalization of subpopulations of respiratory epithelial cells from transgenic mice bearing SV40 large T antigen
K. Ikeda, J. C. Clark, C. J. Bachurski, K. A. Wikenheiser, J. Cuppoletti, S. Mohanti, R. E. Morris, and J. A. Whitsett L309

Tumor necrosis factor-α decreases pulmonary artery endothelial nitrovasodilator via protein kinase C
A. Johnson, D. T. Phelps, and T. J. Ferro L318

Contraction of human bronchial smooth muscle caused by activated human eosinophils
K. F. Rabe, N. M. Muñoz, A. J. Vita, B. E. Morton, H. Magnussen, and A. R. Leff L326

Inhibition of lung calcium-independent phospholipase A_2 by surfactant protein A
A. B. Fisher, C. Dodia, and A. Chander L335

Structure and function of human histamine *N*-methyltransferase: critical enzyme in histamine metabolism in airway
K. Yamauchi, K. Sekizawa, H. Suzuki, H. Nakazawa, Y. Ohkawara, D. Katayose, H. Ohtsu, G. Tamura, S. Shibahara, M. Takemura, K. Maeyama, T. Watanabe, H. Sasaki, K. Shirato, and T. Takishima L342

RAPID COMMUNICATION

Effect of chronic respiratory loading on the subunit composition of cytochrome *c* oxidase in the diaphragm
Y. Akiyama, R. E. Garcia, L. J. Prochaska, and A. R. Bazzy L350

No. 4. OCTOBER 1994

Effects of surfactant protein A and surfactant lipids on lymphocyte proliferation in vitro
S. G. Kremlev, T. M. Umstead, and D. S. Phelps L357

Extracellular matrix synthesis by coal dust-exposed type II epithelial cells
Y.-C. Lee, R. Hogg, and D. E. Rannels L365

Ontogeny of surfactant proteins and lipid-synthesizing enzymes in cultured fetal lung epithelial cells
C. Fraslon-Vanhulle, B. Chailley-Heu, J. J. Batenburg, R. Elfring, and J. R. Bourbon L375

Expression of TGF-α, EGF, and EGF receptor in fetal rat lung
T. P. Strandjord, J. G. Clark, and D. K. Madtes L384

Characterization of sodium-dependent glucose transport in sheep tracheal epithelium
J.-P. Charon, J. McCormick, A. Mehta, and P. J. Kemp L390

Tumor necrosis factor-induced interleukin-8 expression in cultured human airway epithelial cells
O. J. Kwon, B. T. Au, P. D. Collins, I. M. Adcock, J. C. Mak, R. R. Robbins, K. F. Chung, and P. J. Barnes L398

Isolation and maintenance of human pulmonary artery endothelial cells in culture isolated from transplant donors
G. A. Visner, E. D. Staples, S. E. Chesrown, E. R. Block, D. S. Zander, and H. S. Nick L406

γ-Glutamylcysteine synthetase and GSH increase in quinone-induced oxidative stress in BPAEC
M. M. Shi, T. Iwamoto, and H. J. Forman L414

Selective differences in vascular endothelial- vs. airway epithelial-T cell adhesion mechanisms
S. Nakajima, D. C. Look, W. T. Roswit, M. J. Bragdon, and M. J. Holtzman L422

Isolation, culture, and characterization of rat lung microvascular endothelial cells
J. C. Magee, A. E. Stone, K. T. Oldham, and K. S. Guice L433

Intratracheal injection of LPS and cytokines. V. LPS induces expression of LIF and LIF inhibits acute inflammation
T. R. Ulich, M.-J. Fann, P. H. Patterson, J. H. Williams, B. Samal, J. Del Castillo, S. Yin, K. Guo, and D. G. Remick L442

Glutathione transport by type II cells in perfused rat lung
C. Bai, L. A. S. Brown, and D. P. Jones L447

Expression of the β-adrenergic receptor-adenylylcyclase system in basal and columnar airway epithelial cells
S. G. Kelsen, S. Zhou, O. Anakwe, I. Mardini, N. Higgins, and J. L. Benovic L456

11β-Hydroxysteroid dehydrogenase activity in human lung cells and transcription regulation by glucocorticoids
N. Pagé, N. Warriar, and M. V. Govindan L464

Quantitative immunocytochemical analysis of Mn SOD in alveolar type II cells of the hyperoxic rat
R. Vincent, L.-Y. Chang, J. W. Slot, and J. D. Crapo L475

Effect of lung inflation on active and passive liquid clearance from in vivo rabbit lung
N. G. Vejlstrup, C. A. R. Boyd, and K. L. Dorrington L482

No. 5. NOVEMBER 1994

INVITED REVIEW

Transgenic models for study of pulmonary development and disease
S. W. Glasser, T. R. Korfhagen, S. E. Wert, and J. A. Whitsett L489

Regulation of type II alveolar epithelial cell proliferation by TGF-β during bleomycin-induced lung injury in rats
N. Khalil, R. N. O'Connor, K. C. Flanders, W. Shing, and C. I. Whitman L498

Donor lung preservation: effect of cold preservation fluids on cultured pulmonary endothelial cells
S. M. Hall, H. Komai, J. Reader, and S. G. Haworth L508

Dibutyryl cAMP attenuates asbestos-induced pulmonary epithelial cell cytotoxicity and decline in ATP levels
V. A. Israbian, S. A. Weitzman, and D. W. Kamp L518

Involvement of protein kinase C in mucus secretion by hamster tracheal epithelial cells in culture
H. Kai, K. Yoshitake, Y. Isohama, I. Hamamura, K. Takahama, and T. Miyata L526

Spatial and temporal distribution of insulin-like growth factors I and II during development of rat lung
L. D. Wallen and V. K. M. Han L531

Expression of activation markers by human lung T cells after adherence to lung epithelial cells
B. Bruinier, F. H. Krouwels, B. E. A. Hol, H. M. Jansen, T. A. Out, and R. Lutter L543

Exoproduct secretions of *Pseudomonas aeruginosa* strains influence severity of alveolar epithelial injury
I. Kudoh, J. P. Wiener-Kronish, S. Hashimoto, J.-F. Pittet, and D. Frank L551

Cigarette smoke causes rapid cell proliferation in small airways and associated pulmonary arteries
H. S. Sekhon, J. L. Wright, and A. Churg L557

Interferon-γ regulation of interleukin 6 in monocytic cells
D. E. Biondillo, S. A. Konicek, and G. K. Iwamoto L564

Transforming growth factor-β1 modulates type II cell fibronectin and surfactant protein C expression
W. M. Maniscalco, R. A. Sinkin, R. H. Watkins, and M. H. Campbell L569

Binding of surfactant protein A to C1q receptors mediates phagocytosis of *Staphylococcus aureus* by monocytes
M. F. Geertsma, P. H. Nibbering, H. P. Haagsman, M. R. Daha, and R. van Furth L578

Maturation-related changes in endothelial nitric oxide synthase immunolocalization in developing ovine lung
A. C. Halbower, R. M. Tuder, W. A. Franklin, J. S. Pollock, U. Förstermann, and S. H. Abman L585

A novel chloride-dependent GTP-utilizing protein kinase in plasma membranes from human respiratory epithelium
K. J. Treharne, L. J. Marshall, and A. Mehta L592

Prostaglandin B_2-induced pulmonary hypertension is mediated by TxA_2/PGH_2 receptor stimulation
F. Liu, J. A. Orr, and J.-Y. Wu L602

Endotoxin responsiveness and grain dust-induced inflammation in the lower respiratory tract
D. A. Schwartz, P. S. Thorne, P. J. Jagielo, G. E. White, S. A. Bleuer, and K. L. Frees L609

Clot-embedded natural surfactant: kinetics of fibrinolysis and surface activity
A. Günther, M. Kalinowski, A. Elssner, and W. Seeger L618

P_{2u} purinoceptor stimulation of surfactant secretion coupled to phosphatidylcholine hydrolysis in type II cells
L. I. Gobran, Z.-X. Xu, Z. Lu, and S. A. Rooney L625

BOOKSHELF L634

No. 6. DECEMBER 1994

Regulation of CTP:choline-phosphate cytidylyltransferase by polyunsaturated n-3 fatty acids
R. K. Mallampalli, R. G. Salome, and A. A. Spector L641

Oxidant stress decreases Na^+/H^+ antiport activity in bovine pulmonary artery endothelial cells
M. Cutaia and N. Parks L649

Surfactant protein A modulates release of reactive oxygen species from alveolar macrophages
S. Weissbach, A. Neuendank, M. Pettersson, T. Schaberg, and U. Pison L660

Distribution of NOS in normoxic vs. hypoxic rat lung: upregulation of NOS by chronic hypoxia
C. Xue, A. Rengasamy, T. D. Le Cras, P. A. Koberna, G. C. Dailey, and R. A. Johns L667

Perinatal hypocuprosis affects synthesis and composition of neonatal lung collagen, elastin, and surfactant
A. B. Abdel-Mageed, R. Welti, F. W. Oehme, and J. A. Pickrell L679

Lung injury after silica instillation is associated with an accumulation of iron in rats
A. J. Ghio, R. H. Jaskot, and G. E. Hatch L686

Effects of TGF-β and TNF-α on procoagulant and fibrinolytic pathways of human tracheal epithelial cells
S. Idell, A. Kumar, C. Zwieb, D. Holiday, K. B. Koenig, and A. R. Johnson L693

Immunohistochemical demonstration of a paracrine role of nitric oxide in bronchial function
A. Rengasamy, C. Xue, and R. A. Johns L704

Surfactant protein A stimulation of inflammatory cytokine and immunoglobulin production
S. G. Kremlev and D. S. Phelps L712

Oxygen-induced changes in protein synthesis and cell proliferation in cultured lung slices
P. S. Shapiro, F. E. Casty, W. S. Stirewalt, K. O. Leslie, M. P. Absher, and J. N. Evans L720

Transforming growth factor-α enhances alveolar epithelial cell repair in a new in vitro model
F. Kheradmand, H. G. Folkesson, L. Shum, R. Derynk, R. Pytela, and M. A. Matthay L728

Maturation of nonadrenergic noncholinergic inhibitory system in normal and allergen-sensitized rabbits
G. N. Colasurdo, J. E. Loader, J. P. Graves, and G. L. Larsen L739

Characterization of acetylcholinesterase in rabbit intrapulmonary arteries
R. J. Altiere, D. C. Travis, and D. C. Thompson L745

Surfactant protein A regulates uptake of pulmonary surfactant by lung type II cells on microporous membranes
S. R. Bates, C. Dodia, and A. B. Fisher L753

Insulin-like growth factor axis in airway smooth muscle cells
J. P. Noveral, A. Bhala, R. L. Hintz, M. M. Grunstein, and P. Cohen L761

Immunolocalization of glutathione *S*-transferase isoenzymes in bronchiolar epithelium of rats and mice
M. J. Lee and D. Dinsdale L766

A discrete subpopulation of human monocytes expresses a neutrophil-like proinflammatory (P) phenotype
C. A. Owen, M. A. Campbell, S. S. Boukedes, R. A. Stockley, and E. J. Campbell L775

Monocytes recruited to sites of inflammation express a distinctive proinflammatory (P) phenotype
C. A. Owen, M. A. Campbell, S. S. Boukedes, and E. J. Campbell L786

Progressive alveolar septal injury in primates exposed to 60% oxygen for 14 days
J. D. Crapo, G. Hayatdavoudi, M. J. Knapp, P. J. Fracica, W. G. Wolfe, and C. A. Piantadosi L797

Expression of substance P and its precursor forms in vagal, tracheal, and lung tissues of the guinea pig
R. M. Kream, J. E. Marchand, S. T. O'Connor, and E. I. Bloomquist L807

Sites of superoxide anion production detected by lucigenin in calf pulmonary artery smooth muscle
K. M. Mohazzab-H. and M. S. Wolin L815

Properties of a superoxide anion-generating microsomal NADH oxidoreductase, a potential pulmonary artery Po_2 sensor
K. M. Mohazzab-H. and M. S. Wolin L823

Subject Index to Volume 11 L833
Author Index to Volume 11 L841